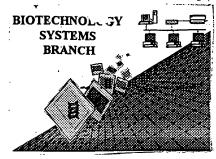
Nikol

RAW SEQUENCE LISTING ERROR REPORT





JAN 1 0 2001

The Biotechnology Systems Branch of the Scientific and Technical Information
Center (STIC) detected errors when processing the following computer readable CHIER 1600/2900
form:

Application Serial Number: 09/451,7398

Source: 1642

Date Processed by STIC:

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,

2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: patin21help@uspto.gov or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: patin30help@uspto.gov or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE <u>CHECKER VERSION 3.0 PROGRAM</u>, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

Applicant must file the items indicated below within the time period set the Office action to which the Notice is attached to avoid abandonment under 35 U.S.C. § 133 (extensions of time may be obtained under the provisions of 37 CFR 1.136(a)).

The nucleotide and/or amino acid sequence disclosure contained in this application does not comply with the requirements for such a disclosure as set forth in 37 C.F.R. 1.821 - 1.825 for the following reason(s):

X	1. This application clearly fails to comply with the requirements of 37 C.F.R. 1.821-1.825. Applicant's attention is directed to the final rulemaking notice published at 55 FR 18230 (May 1, 1990), and 1114 OG 29 (May 15, 1990). If the effective filing date is on or after July 1, 1998, see the final rulemaking notice published at 63 FR 29620 (June 1, 1998) and 1211 OG 82 (June 23, 1998).						
	2. This application does not contain, as a separate part of the disclosure on paper copy, a "Sequence Listing" as required by 37 C.F.R. 1.821(c).						
	3. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by 37 C.F.R. 1.821(e).						
	4. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the content of the computer readable form does not comply with the requirements of 37 C.F.R. 1.822 and/or 1.823, as indicated on the attached copy of the marked -up "Raw Sequence Listing."						
X	5. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable as indicated on the attached CRF Diskette Problem Report. A Substitute computer readable form must be submitted as required by 37 C.F.R. 1.825(d).						
	6. The paper copy of the "Sequence Listing" is not the same as the computer readable from of the "Sequence Listing" as required by 37 C.F.R. 1.821(e).						
	7. Other:						
Αp	oplicant Must Provide:						
X	An initial or substitute computer readable form (CRF) copy of the "Sequence Listing".						
X	An initial or <u>substitute</u> paper copy of the "Sequence Listing", as well as an amendment directing its entrinto the specification.						
X	A statement that the content of the paper and computer readable copies are the same and, where applicable, include no new matter, as required by 37 C.F.R. 1.821(e) or 1.821(f) or 1.821(g) or 1.825(b) or 1.825(d).						
Fo	or questions regarding compliance to these requirements, please contact:						
Fc	or Rules Interpretation, call (703) 308-4216 or CRF Submission Help, call (703) 308-4212 atentIn Software Program Support						
	Technical Assistance703-287-0200						

PLEASE RETURN A COPY OF THIS NOTICE WITH YOUR REPLY

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE The number/text at the end of each line "wrapped" down to the next line. Wrapped Nucleics This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3, as this will prevent "wrapping". RECEIVED The amino acid number/text at the end of each line "wrapped" down to the next line. Wrapped Aminos This may occur if your file was retrieved in a word processor after creating it. JAN 1 0 2001 Please adjust your right margin to .3, as this will prevent "wrapping". The rules require that a line not exceed 72 characters in length. This includes spaces. Incorrect Line Length TECH CENTER 1600/2000 The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs Misaligned Amino Acid between the numbering. It is recommended to delete any tabs and use spacing between the numbers. Numbering This file was not saved in ASCII (DOS) text, as required by the Sequence Rules. Non-ASCII Please ensure your subsequent submission is saved in ASCII text so that it can be processed. Sequence(s) _____ contain n's or Xaa's which represented more than one residue. Variable Length As per the rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing. A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid Patentin ver. 2.0 "bug" . Normally, Patentin would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences. missing. If intentional, please use the following format for each skipped sequence: Skipped Sequences Sequence(s) (2) INFORMATION FOR SEQ ID NO:X: (OLD RULES) (i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS") (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: This sequence is intentionally skipped Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s). missing. If intentional, please use the following format for each skipped sequence. Skipped Sequences Sequence(s) ____ (NEW RULES) <210> sequence id number ₹400> sequence id number 000 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing. Use of <220> to <223> is MANDATORY if n's or Xaa's are present. (NEW RULES) In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents. Use of <213>Organism are missing this mandatory field or its response. Sequence(s) (NEW RULES) are missing the <220>Feature and associated headings. Use of <220>Feature Sequence(s) _ Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown" (NEW RULES) Please explain source of genetic material in <220> to <223> section. (See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules) Please do not use "Copy to Disk" function of Patentin version 2.0. This causes a corrupted Patentin ver. 2.0 "bug" file: Testilling in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).

AKS-Biotechnology Systems Branch- 5/15/99

Instead, please use "File Manager" or any other means to copy file to floppy disk.

Nicko

RECEIVED

JAN 1 0 2001

1642

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/451,739B

DATE: 01/02/2001 TIME: 11:02:39

TECH CENTER 1600/2900

Input Set : A:\ES.txt

Output Set: N:\CRF3\01022001\I451739B.raw

Does Not Comply Corrected Diskette Needed

1 <110> APPLICANT: Jager, Dirk sel item 5 on Even Jummany Heat Scanlan, Matthew 3 Gure, Ali Jager, Elke Knuth, Alexander. Old, Lloyd Chen, Yao-tseng 9 <120> TITLE OF INVENTION: Isolated Nucleic Acid Molecules Encoding Cancer Associated Antigens, the Antigens per se, and Uses Thereof 11 13 <130> FILE REFERENCE: LUD 5615 15 <140> CURRENT APPLICATION NUMBER: 09/451,739B 17 <141> CURRENT FILING DATE: 1999-11-30

ERRORED SEQUENCES

560

520 <21.0> SEQ ID NO: 16 521 <21.1> LENGTH: (513) 5/2 shown (meth page) 522 <21.2> TYPE: PRT

523 <213> ORGANISM: Homo sapiens

19 <160> NUMBER OF SEQ ID NOS: 19

(-> 524 <400> SEQUENCE: 16

525 Met. Lys Val Ser Ile Pro Thr Lys Ala Leu Glu Leu Met Asp Met Gln 10 528 Thr Phe Lys Ala Giu Pro Pro Glu Lys Pro Ser Ala Phe Glu Pro Ala 20 25 531 Ile Glu Met Gln Lys Ser Val Pro Asn Lys Ala Leu Glu Leu Lys Asn 532 3.5 4.0 534 Glu Gln Thr Leu Arg Ala Asp Glu Ile Leu Pro Ser Glu Ser Lys Gln 50 55 537 Lys Asp Tyr Glu Glu Ser Ser Trp Asp Ser Glu Ser Leu Cys Glu Thr 538 65 70 75 540 Val Ser Gln Lys Asp Val Cys Leu Pro Lys Ala Thr His Gln Lys Glu . 90 543 Ile Asp Lys Ile Asn Gly Lys Leu Glu Glu Ser Pro Asp Asn Asp Gly 100 1.05 1.10 547 Phe Leu Lys Ala Pro Cys Arg Met Lys Val Ser Ile Pro Thr Lys Ala 1.1.5 120 550 Leu Glu Leu Met Asp Met Gln Thr Phe Lys Ala Glu Pro Pro Glu Lys 551 130 1.35 140 553 Pro Ser Ala Phe Glu Pro Ala Ile Glu Met Gl
n Lys Ser Val Pro Asn 554 145 150 1.55 556 Lys Ala Leu Glu Leu Lys Asn Glu Gln Thr Leu Arg Ala Asp Gln Met 170 1.65 175 559 Phe Pro Ser Glu Ser Lys Gln Lys Lys Val Glu Glu Asn Ser Trp Asp

185

1.80

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/451,739B

DATE: 01/02/2001 TIME: 11:02:39

Input Set : A:\ES.txt

Output Set: N:\CRF3\01022001\I451739B.raw

· 562 Ser Glu Ser Leu Arg Glu Thr Val Ser Glu Lys Asp Val Cys Val Pro 563 195 200 565 Lys Ala Thr His Gln Lys Glu Met Asp Lys Ile Ser Gly Lys Leu Glu 566 210 215 220 568 Asp Ser Thr Ser Leu Ser Lys Ile Leu Asp Thr Val His Ser Cys Glu 230 235 574 Met Glu Gln Met Lys Lys Lys Phe Cys Val Leu Lys Lys Lys Leu Ser 575 260 260 365 265 270 270 270 575 260 **260** 577 Glu Ala Lys Glu fle Lys Ser Gln Leu Glu Asn Gln Lys Val Lys Trp E--> 578 275 280 285 $580\,\mathrm{Glu}$ Glu Glu Leu Cys Ser Val Arg Leu Thr Leu Asn Glu Glu Glu Glu 295 300 583 Lyc Arg Arg Aon Ala Aop Ilo Lou Aon Clu Lys Ilo Arg Glu Glu Leu 31.5 320 310 586 Gly Arg Ile Glu Glu Gln His Arg Lys Glu Leu Glu Val Lys Gln Gln -> 587 325 330 335 589 Leu Glu Gln Ala Leu Arg Ile Gln Asp Ile Glu Leu Lys Ser Val Glu E--> 590 340 345 350 592 Ser Asn Leu Asn Gln Val Ser His Thr His Glu Asn Glu Asn Tyr Leu ·> 593 355 360 595 Leu His Glu Asn Cys Met Leu Lys Lys Glu Ile Ala Met Leu Lys Leu E--> 596 370 375 380 598 Glu Ile Ala Thr Leu Lys His Gln Tyr Gln Glu Lys Glu Asn Lys Tyr 390 395 4 0.0 60] Phe Glu Asp Ile Lys Ile Leu Lys Glu Lys Asn Ala Glu Leu Gln Met E--> 602 405 410 415 604 Thr Leu Lys Leu Lys Glu Glu Ser Leu Thr Lys Arg Ala Ser Gln Tyr E--> 605 420 425 430 607 Ser Gly Gln Leu Lys Val Leu Ile Ala Glu Asn Thr Met Leu Thr Ser -> 608 435 440 610 Lys Leu Lys Glu Lys Gln Asp Lys Glu Ile Leu Glu Ala Glu Ile Glu E--> 611 450 455 460 613 Ser His His Pro Arg Leu Ala Ser Ala Val Gln Asp His Asp Gln Ile 470 475 617 Val Thr Ser Arg Lys Ser Gln Glu Pro Ala Phe His Ile Ala Gly Asp E--> 618 485 490 495 620 Ala Cys Leu Gln Arg Lys Met Asn Val Asp Val Ser Ser Thr Asp Ile

misabjed amend acid rumbers (see Fren 4 on Ever Summary Sheet)

All ret page famore evor

rsee item 10 on Evral Junnary Sheet

	31					
<210> 1 <211> 1533 <212> DNA <213> Homo <220> <221> CDS <222> 235 <400> 1						
ggttttccac	gttggacaag	tgcggctcgg	cggccagcgg	agcgcgcccc	ttcccgctgc	60
ccgctccgct	cctctcttct	acccagccca	gtgggcgagt	gggcagcggc	ggccgcggcg	120
ctgggccctc	tcccgccggt	gtgtgcgcgc	tcgtacgcgc	ggcccccggc	gccagccccg	180
ccgcctgaga	gggggcctgc	gccgccggcc	ggggcgtgcg	cccgggagcc	acconcacco	240
cggcccgcgc	cctcaggcgc	tggggtcccc	gcggacccgg	aggcggcgga	cgggctcggc	300
agatgtagcc	gccgggccga	agcaggagcc	ggcggggggg	cgccgggaga	gcgagggctt	360
tgcattttgc	agtgctattt	tttgaggggg	gcggagggtg	gaggaagtcg	gaaagccgcg	420
ccgagtcgcc	ggggacctcc	ggggtgaacc	atgttgagtc	ctgccaacgg	ggagcagctc	480
cacctggtga	actatgtgga	ggactacctg	gactccatcg	agtccctgcc	tttcgacttg	540
cagagaaatg	tctcgctgat	gcgggagatc	gacgcgaaat	accaagagat	cctgaaggag	600
ctagacgagt	gctacgagcg	cttcagtcgc	gagacagacg	gggcgcagaa	gcggcggatg	660
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atcgtgagcc	agatggtgga	gctggtggag	aaccgcacgc	ggcaggtgga	cagccacgtg	780
gagctgttcg	aggcgcagca	ggagctgggc	gacacagcgg	gcaacagcgg	caaggctggc	840
gcggacaggc	ccaaaggcga	ggcggcagcg	caggctgaca	agcccaacag	caagcgctca	900
cggcggcagc	gcaacaacga	gaaccgtgag	aacgcgtcca	gcaaccacga	ccacgacgac	960
ggcgcctcgg	gcacacccaa	ggagaagaag	gccaagacct	ccaagaagaa	gaagcgctcc	1020
aaggccaagg	cggagcgaga	ggcgtcccct	gccgacctcc	ccatcgaccc	caacgaaccc	1080
acgtactgtc	tgtgcaacca	ggtctcctat	ggggagatga	tcggctgcga	caacgacgag	1140
	agtggttcca ccaagtgccg					
tccaaaaaag	agagggctta	caacaggtag	tttgtggaca	ggcgcctggt	gtgaggagga	1320
caaaataaac	cgtgtattta	ttacattgct	gcctttgttg	aggtgcaagg	agtgtaaaat	1380
gtatatttt	aaagaatgtt	agaaaaggaa	ccattccttt	catagggatg	gcagtgattc	1440
tgtttgcctt	ttgttttcat	tggtacacgt	gtaacaagaa	agtggtctgt	ggatcagcat	1500
tttagaaact	acaaatatag	gtttgattca	aca			1533

FYI:

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

JATE: 01/02/2001 PATENT APPLICATION: US/09/451,739B TIME: 11:02:40

Input Set : A:\ES.txt

Output Set: N:\CRF3\01022001\I451739B.raw

```
L:26 M:283 W: Missing Blank Line separator, <220> field identifier L:29 M:283 W: Missing Blank Line separator, <400> field identifier
L:36 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:1
L:36 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1
L:87 M:283 W: Missing Blank Line separator, <400> field identifier
L:133 M:283 W: Missing Blank Line separator, <220> field identifier
L:134 M:283 W: Missing Blank Line separator, <400> field identifier
L:167 M:283 W: Missing Blank Line separator, <400> field identifier
L:203 M:283 W: Missing Blank Line separator, <400> field identifier
L:264 H:283 W: Missing Blank Line separator, <220> field identifier
L:265 M:283 W: Missing Blank Line separator, <400> field identifier
L:314 M:283 W: Missing Blank Line separator, <400> field identifier
L:367 M:283 W: Missing Blank Line separator, <400> field identifier
L:390 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID\#:8
L:390 M:258 W: Mandatory reacure missing, <223> not found for SEQ ID#.0
L:390 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:8
L:399 M:283 W: Missing Blank Line separator, <400> field identifier L:407 M:283 W: Missing Blank Line separator, <400> field identifier
L:415 M:283 W: Missing Blank Line separator, <400> field identifier
L:423 M:283 W: Missing Blank Line separator, <400> field identifier L:431 M:283 W: Missing Blank Line separator, <400> field identifier
L:439 M:283 W: Missing Blank Line separator, <400> field identifier L:450 M:283 W: Missing Blank Line separator, <400> field identifier
L:505 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:15
L:505 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:15 L:505 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:15
L:509 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:15
L:509 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:15
M:340 Repeated in SeqNo-15
L:513 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:15
L:513 \dot{M}:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:15
L:515 M:258 W: Mandatory Feature missing, <220> not found for SEQ TD#:15
L:515 M:258 W: Mandatory Peature missing, <223> not found for SEQ ID#:15 L:517 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:15
L:517 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:15
L:524 M:283 W: Missing Blank Line separator, <400> field identifier
L:572 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:16
M:332 Repeated in SeqNo=16
L:621 M:252 E: No. of Seq. differs, <211>LENGTH:Input:513 Found:512 SEQ:16
L:628 M:283 W: Missing Blank Line separator, <400> field identifier
L:636 M:283 W: Missing Blank Line separator, <400> field identifier
L:644 M:283 W: Missing Blank Line separator, <400> field identifier
```